

1      **CLAIMS**

2

3      1. An application program interface embodied on one or more computer  
4      readable media, comprising:

- 5            a first class to provide information regarding a current HTTP request;  
6            a second class to manage HTTP output to a client; and  
7            an object to provide access to server-side utilities and processes.

8

9      2. An application program interface as recited in claim 1, further  
10     comprising a third class to manipulate at least one cookie.

11

12     3. An application program interface as recited in claim 1, further  
13     comprising a fourth class to handle file transfers.

14

15     4. An application program interface as recited in claim 1, further  
16     comprising a fifth class to provide exception information.

17

18     5. An application program interface as recited in claim 1, further  
19     comprising a sixth class to control operation of an output cache.

20

21     6. An application program interface as recited in claim 1, further  
22     comprising a set of classes that enable building and using web services.

1       7. An application program interface as recited in claim 1, further  
2 comprising a web service class to define a base class for web services.

3  
4       8. An application program interface as recited in claim 1, further  
5 comprising a web method attribute class to programmatically expose a method  
6 over the web.

7  
8       9. An application program interface as recited in claim 1, further  
9 comprising HTML controls that allow a user to create HTML server controls on a  
10 web page.

11  
12      10. An application program interface as recited in claim 9, wherein the  
13 HTML server controls are executed on a server and map to standard HTML tags.

14  
15      11. An application program interface as recited in claim 1, further  
16 comprising web controls that allow a user to create web server controls on a web  
17 page.

18  
19      12. An application program interface as recited in claim 11, wherein the  
20 web controls are executed on a web server and include form controls.

21  
22      13. An application program interface as recited in claim 1, further  
23 comprising a set of classes that allow a user to create controls and pages that  
24 represent a user interface on a web page.

1           **14.** A network software architecture comprising the application program  
2 interface as recited in claim 1.  
3

4           **15.** An application program interface embodied on one or more  
5 computer readable media, comprising:

6                 a first group of services related to information associated with a current  
7 HTTP request;

8                 a second group of services related to managing HTTP output to a client;

9                 a third group of services related to accessing server-side utilities; and

10                 a fourth group of services related to creating web services.  
11

12           **16.** An application program interface as recited in claim 15, wherein the  
13 fourth group of services includes:

14                 a web service class that defines a base class for web services; and

15                 a web method attribute class that allows a user to programmatically expose  
16 a method over the web.  
17

18           **17.** An application program interface as recited in claim 15, further  
19 comprising a fifth group of services that provide for the creation of a user interface  
20 on a web page.  
21

22           **18.** An application program interface as recited in claim 15, further  
23 comprising a set of classes that allow a user to create server controls on a web  
24 page.  
25

1           **19.** An application program interface as recited in claim 15, further  
2 comprising a set of classes that allow a user to create HTML server controls on a  
3 web page.

4

5           **20.** An application program interface as recited in claim 15, further  
6 comprising a set of classes that allow a user to create web server controls on a web  
7 page.

8

9           **21.** A network software architecture comprising the application program  
10 interface as recited in claim 15.

11

12           **22.** A method comprising:  
13              creating an HTTP request class to provide information regarding a current  
14              HTTP request;  
15              creating an HTTP response class to manage HTTP output to a client; and  
16              creating an HTTP server utility object to provide access to server-side  
17              utilities.

18

19           **23.** A method as recited in claim 22, further comprising creating a class  
20 to manipulate cookies.

21

22           **24.** An application program interface as recited in claim 22, further  
23 comprising creating a class to handle file transfers.

1           **25.** An application program interface as recited in claim 22, further  
2 comprising creating web service classes to enable the building and use of web  
3 services.  
4

5           **26.** An application program interface as recited in claim 22, further  
6 comprising creating control classes to enable the creation of HTML server  
7 controls and web server controls.  
8

9           **27.** A computer system including one or more microprocessors and one  
10 or more software programs, the one or more software programs utilizing an  
11 application program interface to request services from an operating system, the  
12 application program interface including separate commands to request services  
13 consisting of the following groups of services:  
14

15           a first group of services related to information regarding a current HTTP  
16 request;  
17

18           a second group of services related to managing HTTP output to a client;  
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20           a third group of services related to providing access to server-side utilities;  
21 and  
22

23           a fourth group of services related to creating web services.  
24  
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1           **28.** A method comprising:

2                 calling one or more first functions to facilitate providing information  
3                 related to a current HTTP request;

4                 calling one or more second functions to facilitate managing HTTP output to  
5                 a client;

6                 calling one or more third functions to facilitate access to server-side utilities  
7                 and processes; and

8                 calling one or more fourth functions to facilitate creating a user interface on  
9                 a web page.

10  
11           **29.** A method as recited in claim 28, further including calling one or  
12                 more fifth functions to facilitate building and using web services.

13  
14           **30.** A method as recited in claim 28, further including calling one or  
15                 more sixth functions to facilitate creating server controls on a web page.

16  
17           **31.** A method as recited in claim 28, further including calling one or  
18                 more seventh functions to facilitate programmatically exposing a method over the  
19                 web.